Amendments to the Claims

Please cancel Claims 4, 5 and 7. Please amend Claims 1-3, 6, 8-23, and 27-29. The Claim Listing below will replace all prior versions of the claims in the application.

Claim Listing

What is claimed is:

1. (currently amended) An anticancer drug ET in which E comprises one or more effector agents that evoke tumor cell killing and T comprises:

a) ~~A group referred to as~~ a first "tumor selective targeting ligand" which selectively binds to a target receptor that is increased on the surface of ~~the~~ a tumor cell or in the microenvironment of the tumor cell compared to that for vital normal cells; and

b) one or more of the following:

I. [[A]] a second tumor selective targeting ligand;

II. ~~A group, referred to as~~ a "masked intracellular transport ligand" which can be modified in vivo to give a group referred to as an "intracellular transport ligand" which binds to a tumor cell receptor that actively transports the bound ~~ligands~~ anticancer drug ET into the tumor cell;

III. ~~A group referred to as~~ a "trigger" that can be modified in vivo, wherein in vivo modification activates ~~the trigger and~~ modulates the pharmacological activity (PA) of the anticancer drug ET and wherein the modification is caused by an exzyme or enzyme activity that is increased at tumor cells or decreased at normal cells; or

IV. ~~A group referred to as~~ an "intracellular trapping ligand"[[,]] or a "masked intracellular trapping ligand which can be modified in vivo to give an

"intracellular trapping ligand" wherein the intracellular trapping ligand or the masked intracellular trapping ligand ~~which bind~~ binds to one or more intracellular receptors ~~or a group referred to as a "masked intracellular trapping ligand "which can be modified in vivo to give an "intracellular trapping ligand"~~;

~~and~~ wherein, when [[a]] the second tumor selective targeting ligand is present in T then the first and second targeting ligands can bind simultaneously to two targeting receptor molecules; and wherein the first and second targeting ligands are different and bind to different types of targeting receptors;

and wherein when T consists of a first tumor selective targeting ligand and a trigger, and when in vivo modification of said trigger increases the tumor killing activity, the in vivo modification which activates said trigger, is caused by an enzyme or enzymatic activity that is increased at tumor cells or decreased at vital normal cells;

and wherein when T consists of a first tumor selective targeting ligand and a trigger, and when in vivo modification of said trigger decreases the tumor killing activity, the in vivo modification which activates said trigger, is caused by an enzyme or enzymatic activity that is decreased at tumor cells or increased at vital normal cells;

and ~~provided that~~ wherein T ~~is~~ does not comprise an antibody, or an analog or component of an antibody, or a complex of antibodies, or a bispecific antibody, or an analog of a bispecific antibody, or a natural protein, or a complex of natural proteins, or a protein, or a naturally occurring polymer, or a radiolabelled dimer, or a polymer to which is attached, at multiple sites, one or more cytotoxic drugs.

2. (currently amended) [[An]] The anticancer drug ET of claim 1 ~~comprised of~~ comprising the following groups:

I. N1 independently selected first or second tumor selective targeting ligands~~, which may differ~~;

II. N2 independently selected masked intracellular transport ligands~~ which may differ~~;

III.. N3 independently selected triggers~~, which may differ~~, designated "detoxification triggers" wherein activation of the trigger decreases the toxicity of the drug;

IV. N4 independently selected effector agents~~ which may differ~~;

V. N5 independently selected triggers~~ which may differ~~, wherein activation of the trigger increases the toxicity of the drug; and

VI. N6 independently selected intracellular trapping ligands or masked intracellular trapping ligands~~, which may differ~~;

~~and~~ wherein:

N1 = 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10~~, or about 10~~;

N2 = 0, 1, 2, 3, 4, or 5 ~~or about 5~~;

N3 = 0, 1, 2, 3, 4, or 5~~, or about 5~~;

N4 = 1, 2, 3, 4, or 5~~, or about 5~~;

N5 = 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10~~, or about 10~~;

N6 = 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10~~, or about 10~~;

3. (currently amended) ~~A compound~~ The anticancer drug ET of claim 2 in which:

N1 = 1, 2, 3, or 4;

N2 = 0, 1, or 2;

N3 = 0, 1, or 2;

N4 = 1, 2, or 3;

N5 = 0, 1, 2, or 3; and

N6 = 1, 2, or 3;

4. (canceled)

5. (canceled)

6. (currently amended) ~~A compound~~ The anticancer drug ET of claim 3 [[4]], ~~with~~ comprising two targeting ligands that selectively bind to target receptors on the surface of the tumor cell or in the microenvironment of the tumor cell, wherein the concentration of the target receptors is greater on the surface of the tumor cell or in the microenvironment of the tumor cell than on the surface or in the microenvironment of vital normal cells or normal cells.

7. (canceled)

8. (currently amended) ~~A compound~~ The anticancer drug ET of claim 3 [[4]], ~~with~~ comprising three targeting ligands that selectively bind to target receptors on the s urface of the tumor cell or in the microenvironment of the tumor cell, wherein the concentration of the target receptors is greater on the surface of the tumor cell or in the microenvironment of the tumor cell than on the surface or in the microenvironment of vital normal cells or normal cells.

9. (currently amended) The ~~Anticancer~~ anticancer drug ET of claim 3 [[4]] comprised of two or more targeting ligands, wherein at least one of the targeting ligands binds to a target receptor on the surface of the target cell or in the microenvironment of the target

cell, wherein the target has an increased amount of that target receptor compared to a nontarget cell that binds to a second targeting ligand of the compound.

10. (currently amended) ~~A compound~~ The anticancer drug ET of claim 3 [[4]] in which the effector agent is comprised of a cytotoxic drug.

11. (currently amended) ~~A compound~~ The anticancer drug ET of claim 3 [[4]] in which the effector agent is comprised of a radionuclide.

12. (currently amended) ~~A compound~~ The anticancer drug ET of claim 3 [[4]] in which the effector agent is comprised of a drug that stimulates the immune system, wherein N3 is 0.

13. (currently amended) ~~A compound~~ The anticancer drug ET of claim 3 [[4]] in which the effector agent is comprised of a group that can irreversibly chemically modify one or more tumor components.

14. (currently amended) ~~A compound~~ The anticancer drug ET of claim 3 [[4]] in which ET is comprised of an anticancer drug with two targeting ligands, at least one of which binds to a target receptor selected from the following list:

1. a cathepsin type protease
2. a collagenase
3. a gelatinase
4. a matrix metalloproteinase
5. a membrane type matrix metalloproteinase
6. alpha v beta 3 integrin
7. bombesin/gastrin releasing peptide receptors
8. cathepsin B
9. cathepsin D
10. cathepsin K
11. cathepsin L

12. cathepsin O
13. fibroblast activation protein
14. folate binding receptors
15. gastrin/cholecystokinin type B receptor
16. glutamate carboxypeptidase II or (PSMA)
17. guanidinobenzoatase
18. laminin receptor
19. matrilysin
20. matripase
21. melanocyte stimulating hormone receptor
22. nitrobenzylthioinosine-binding receptors
23. norepenephrine transporters
24. nucleoside transporter proteins
25. peripheral benzodiazepam binding receptors
26. plasmin
27. seprase
28. sigma receptors
29. somatostatin receptors
30. stromelysin 3
31. trypsin
32. urokinase
33. MMP 1
34. MMP 2
35. MMP 3
36. MMP 7
37. MMP 9
38. Membrane type matrix metalloproteinase I
39. MMP 12 and
40. MMP 13.

15. (currently amended) [[An]] The anticancer drug ET of claim 3 [[4]] comprised of ~~one~~ a first targeting ligand that binds ~~the~~ a first target receptor (a1) and a second targeting ligand that binds to ~~the~~ a second target receptor (a2) indicated in the pairs of (a1 --- a2) listed below:

urokinase --- a cathepsin type protease; urokinase --- a collagenase; urokinase --- a gelatinase; urokinase --- a matrix metalloproteinase; urokinase --- a membrane type matrix metalloproteinase; urokinase --- alpha v beta 3 integrin; urokinase --- bombesin/gastrin releasing peptide receptors; urokinase --- cathepsin B; urokinase --- cathepsin D; urokinase --- to cathepsin K; urokinase --- cathepsin L; urokinase --- cathepsin O; urokinase --- fibroblast activation protein; urokinase --- folate binding receptors; urokinase --- gastrin/cholecystokinin type B receptor; urokinase --- glutamate carboxypeptidase II or (PSMA); urokinase --- guanidinobenzoatase; urokinase --- laminin receptor; urokinase --- matrilysin; urokinase --- matripase; urokinase --- melanocyte stimulating hormone receptor; urokinase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); urokinase --- norepinephrine transporters; urokinase --- nucleoside transporter proteins; urokinase --- peripheral benzodiazepam binding receptors; urokinase --- plasmin; urokinase --- seprase; urokinase --- sigma receptors; urokinase --- somatostatin receptors; urokinase --- stromelysin 3; urokinase --- trypsin; urokinase --- urokinase; urokinase --- MMP 1; urokinase --- MMP 2; urokinase --- MMP 3; urokinase --- MMP 7; urokinase --- MMP 9; urokinase --- membrane type matrix metalloproteinase I; urokinase --- MMP 12; urokinase --- MMP 13; urokinase --- a tumor antigen; plasmin --- a cathepsin type protease; plasmin --- a collagenase; plasmin --- a gelatinase; plasmin --- a matrix metalloproteinase; plasmin --- a membrane type matrix metalloproteinase; plasmin --- alpha v beta 3 integrin; plasmin --- bombesin /gastrin releasing peptide receptors; plasmin --- cathepsin B; plasmin --- cathepsin D; plasmin --- to cathepsin K; plasmin --- cathepsin L; plasmin --- cathepsin O; plasmin --- fibroblast activation protein; plasmin --- folate binding receptors; plasmin --- gastrin/cholecystokinin type B receptor; plasmin --- glutamate carboxypeptidase II or (PSMA); plasmin --- guanidinobenzoatase; plasmin --- laminin receptor; plasmin --- matrilysin; plasmin --- matripase; plasmin ---

melanocyte stimulating hormone receptor; plasmin --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); plasmin --- norepinephrine transporters; plasmin --- nucleoside transporter proteins; plasmin --- peripheral benzodiazepam binding receptors; plasmin --- plasmin; plasmin --- seprase; plasmin --- sigma receptors; plasmin --- somatostatin receptors; plasmin --- stromelysin 3; plasmin --- trypsin; plasmin --- urokinase; plasmin --- MMP 1; plasmin --- MMP 2; plasmin --- MMP 3; plasmin --- MMP 7; plasmin --- MMP 9; plasmin --- membrane type matrix metalloproteinase I; plasmin --- MMP 12; plasmin --- MMP 13; plasmin --- a tumor antigen; a collagenase --- a cathepsin type protease; a collagenase --- a collagenase; a collagenase --- a gelatinase; a collagenase --- a matrix metalloproteinase; a collagenase --- a membrane type matrix metalloproteinase; a collagenase --- alpha v beta 3 integrin; a collagenase --- bombesin /gastrin releasing peptide receptors; a collagenase --- cathepsin B; a collagenase --- cathepsin D; a collagenase --- to cathepsin K; a collagenase --- cathepsin L; a collagenase --- cathepsin O; a collagenase --- fibroblast activation protein; a collagenase --- folate binding receptors; a collagenase --- gastrin/cholecystokinin type B receptor; a collagenase --- glutamate carboxypeptidase II or (PSMA); a collagenase ---guanidinobenzoatase; a collagenase --- laminin receptor; a collagenase --- matrilysin; a collagenase --- matripase; a collagenase --- melanocyte stimulating hormone receptor; a collagenase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); a collagenase --- norepinephrine transporters; a collagenase --- nucleoside transporter proteins; a collagenase --- peripheral benzodiazepam binding receptors; a collagenase --- seprase; a collagenase --- sigma receptors; a collagenase --- somatostatin receptors; a collagenase --- stromelysin 3; a collagenase --- trypsin; a collagenase --- a collagenase; a collagenase --- MMP 1; a collagenase --- MMP 2; a collagenase --- MMP 3; a collagenase --- MMP 7; a collagenase --- MMP 9; a collagenase --- membrane type matrix metalloproteinase I; a collagenase --- MMP 12; a collagenase --- MMP 13; a collagenase --- a tumor antigen; a gelatinase --- a cathepsin type protease; a gelatinase --- a gelatinase; a gelatinase --- a matrix metalloproteinase; a gelatinase --- a membrane type matrix metalloproteinase; a gelatinase --- alpha v beta 3

integrin; a gelatinase --- bombesin /gastrin releasing peptide receptors; a gelatinase --- cathepsin B; a gelatinase --- cathepsin D; a gelatinase --- to cathepsin K; a gelatinase --- cathepsin L; a gelatinase --- cathepsin O; a gelatinase --- fibroblast activation protein; a gelatinase --- folate binding receptors; a gelatinase --- gastrin/cholecystokinin type B receptor; a gelatinase --- glutamate carboxypeptidase II or (PSMA); a gelatinase---guanidinobenzoatase; a gelatinase --- laminin receptor; a gelatinase --- matrilysin; a gelatinase --- matripase; a gelatinase --- melanocyte stimulating hormone receptor; a gelatinase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); a gelatinase --- norepinephrine transporters; a gelatinase --- nucleoside transporter proteins; a gelatinase --- peripheral benzodiazepam binding receptors; a gelatinase --- seprase; a gelatinase --- sigma receptors; a gelatinase --- somatostatin receptors; a gelatinase --- stromelysin 3; a gelatinase --- trypsin; a gelatinase --- MMP 1; a gelatinase --- MMP 2; a gelatinase --- MMP 3; a gelatinase --- MMP 7; a gelatinase --- MMP 9; a gelatinase --- membrane type matrix metalloproteinase I; a gelatinase --- MMP 12; a gelatinase --- MMP 13; a gelatinase --- a tumor antigen; a matrix metalloproteinase --- a cathepsin type protease; a matrix metalloproteinase --- a collagenase; a matrix metalloproteinase --- a gelatinase; a matrix metalloproteinase --- a matrix metalloproteinase; a matrix metalloproteinase --- a membrane type matrix metalloproteinase; a matrix metalloproteinase --- alpha v beta 3 integrin; a matrix metalloproteinase --- bombesin/gastrin releasing peptide receptors; a matrix metalloproteinase --- cathepsin B; a matrix metalloproteinase --- cathepsin D; a matrix metalloproteinase --- to cathepsin K; a matrix metalloproteinase --- cathepsin L; a matrix metalloproteinase --- cathepsin O; a matrix metalloproteinase --- fibroblast activation protein; a matrix metalloproteinase --- folate binding receptors; a matrix metalloproteinase --- gastrin/cholecystokinin type B receptor; a matrix metalloproteinase --- glutamate carboxypeptidase II or (PSMA); a matrix metalloproteinase --- guanidinobenzoatase; a matrix metalloproteinase --- laminin receptor; a matrix metalloproteinase --- matrilysin; a matrix metalloproteinase --- matripase; a matrix metalloproteinase --- melanocyte stimulating hormone receptor; a matrix metalloproteinase --- nitrobenzylthioinosine-binding receptors or (nucleoside

transporter); a matrix metalloproteinase --- norepinephrine transporters; a matrix metalloproteinase --- nucleoside transporter proteins; a matrix metalloproteinase --- peripheral benzodiazepam binding receptors; a matrix metalloproteinase --- plasmin; a matrix metalloproteinase --- seprase; a matrix metalloproteinase --- sigma receptors; a matrix metalloproteinase --- somatostatin receptors; a matrix metalloproteinase --- stromelysin 3; a matrix metalloproteinase --- trypsin; a matrix metalloproteinase --- a matrix metalloproteinase; a matrix metalloproteinase --- MMP 1; a matrix metalloproteinase --- MMP 2; a matrix metalloproteinase --- MMP 3; a matrix metalloproteinase --- MMP 7; a matrix metalloproteinase --- MMP 9; a matrix metalloproteinase --- membrane type matrix metalloproteinase I; a matrix metalloproteinase --- MMP 12; a matrix metalloproteinase --- MMP 13; a matrix metalloproteinase --- a tumor antigen; a membrane type metalloproteinase --- a cathepsin type protease; a membrane type metalloproteinase --- a membrane type matrix metalloproteinase; a membrane type metalloproteinase --- alpha v beta 3 integrin; a membrane type metalloproteinase --- bombesin /gastrin releasing peptide receptors; a membrane type metalloproteinase --- cathepsin B; a membrane type metalloproteinase --- cathepsin D; a membrane type metalloproteinase --- to cathepsin K; a membrane type metalloproteinase --- cathepsin L; a membrane type metalloproteinase --- cathepsin O; a membrane type metalloproteinase --- fibroblast activation protein; a membrane type metalloproteinase --- folate binding receptors; a membrane type metalloproteinase --- gastrin/cholecystokinin type B receptor; a membrane type metalloproteinase --- glutamate carboxypeptidase II or (PSMA); a membrane type metalloproteinase --- guanidinobenzoatase; a membrane type metalloproteinase --- laminin receptor; a membrane type metalloproteinase --- matrilysin; a membrane type metalloproteinase --- matripase; a membrane type metalloproteinase --- melanocyte stimulating hormone receptor; a membrane type metalloproteinase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); a membrane type metalloproteinase --- norepinephrine transporters; a membrane type metalloproteinase --- nucleoside transporter proteins; a membrane type metalloproteinase --- peripheral benzodiazepam binding receptors; a membrane type

metalloproteinase --- seprase; a membrane type metalloproteinase --- sigma receptors; a membrane type metalloproteinase --- somatostatin receptors; a membrane type metalloproteinase --- stromelysin 3; a membrane type metalloproteinase --- trypsin; a membrane type metalloproteinase --- MMP 1; a membrane type metalloproteinase --- MMP 2; a membrane type metalloproteinase --- MMP 3; a membrane type metalloproteinase --- MMP 7; a membrane type metalloproteinase --- MMP 9; a membrane type metalloproteinase --- membrane type matrix metalloproteinase I; a membrane type metalloproteinase --- MMP 12; a membrane type metalloproteinase --- MMP 13; a membrane type metalloproteinase --- a tumor antigen; alpha v beta 3 integrin --- a cathepsin type protease; alpha v beta 3 integrin --- alpha v beta 3 integrin; alpha v beta 3 integrin --- bombesin /gastrin releasing peptide receptors; alpha v beta 3 integrin --- cathepsin B; alpha v beta 3 integrin --- cathepsin D; alpha v beta 3 integrin --- cathepsin K; alpha v beta 3 integrin --- cathepsin L; alpha v beta 3 integrin --- cathepsin O; alpha v beta 3 integrin --- fibroblast activation protein; alpha v beta 3 integrin --- folate binding receptors; alpha v beta 3 integrin --- gastrin/cholecystokinin type B receptor; alpha v beta 3 integrin --- glutamate carboxypeptidase II or (PSMA); alpha v beta 3 integrin --- guanidinobenzoatase; alpha v beta 3 integrin --- laminin receptor; alpha v beta 3 integrin --- matrilysin; alpha v beta 3 integrin --- matripase; alpha v beta 3 integrin --- melanocyte stimulating hormone receptor; alpha v beta 3 integrin --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); alpha v beta 3 integrin --- norepinephrine transporters; alpha v beta 3 integrin --- nucleoside transporter proteins; alpha v beta 3 integrin --- peripheral benzodiazepam binding receptors; alpha v beta 3 integrin --- seprase; alpha v beta 3 integrin --- sigma receptors; alpha v beta 3 integrin --- somatostatin receptors; alpha v beta 3 integrin --- stromelysin 3; alpha v beta 3 integrin --- trypsin; alpha v beta 3 integrin --- MMP 1; alpha v beta 3 integrin --- MMP 2; alpha v beta 3 integrin --- MMP 3; alpha v beta 3 integrin --- MMP 7; alpha v beta 3 integrin --- MMP 9; alpha v beta 3 integrin --- membrane type matrix metalloproteinase I; alpha v beta 3 integrin --- MMP 12; alpha v beta 3 integrin --- MMP 13; alpha v beta 3 integrin --- a tumor antigen; cathepsin B --- a cathepsin type protease; cathepsin B --- bombesin /gastrin releasing peptide receptors; cathepsin B ---

cathepsin B; cathepsin B --- cathepsin D; cathepsin B --- to cathepsin K; cathepsin B --- cathepsin L; cathepsin B --- cathepsin O; cathepsin B --- fibroblast activation protein; cathepsin B --- folate binding receptors; cathepsin B --- gastrin/cholecystokinin type B receptor; cathepsin B --- glutamate carboxypeptidase II or (PSMA); cathepsin B --- guanidinobenzoatase; cathepsin B --- laminin receptor; cathepsin B --- matrilysin; cathepsin B --- matripase; cathepsin B --- melanocyte stimulating hormone receptor; cathepsin B --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); cathepsin B --- norepinephrine transporters; cathepsin B --- nucleoside transporter proteins; cathepsin B --- peripheral benzodiazepam binding receptors; cathepsin B --- seprase; cathepsin B --- sigma receptors; cathepsin B --- somatostatin receptors; cathepsin B --- stromelysin 3; cathepsin B --- trypsin; cathepsin B --- MMP 1; cathepsin B --- MMP 2; cathepsin B --- MMP 3; cathepsin B --- MMP 7; cathepsin B --- MMP 9; cathepsin B --- membrane type matrix metalloproteinase I; cathepsin B --- MMP 12; cathepsin B --- MMP 13; cathepsin B --- a tumor antigen; bombesin/gastrin releasing peptide receptors --- a cathepsin type protease; bombesin/gastrin releasing peptide receptors --- bombesin /gastrin releasing peptide receptors; bombesin/gastrin releasing peptide receptors --- cathepsin B; bombesin/gastrin releasing peptide receptors --- cathepsin D; bombesin/gastrin releasing peptide receptors --- to cathepsin K; bombesin/gastrin releasing peptide receptors --- cathepsin L; bombesin/gastrin releasing peptide receptors --- cathepsin O; bombesin/gastrin releasing peptide receptors --- fibroblast activation protein; bombesin/gastrin releasing peptide receptors --- folate binding receptors; bombesin/gastrin releasing peptide receptors --- gastrin/cholecystokinin type B receptor; bombesin/gastrin releasing peptide receptors --- glutamate carboxypeptidase II or (PSMA); bombesin/gastrin releasing peptide receptors --- guanidinobenzoatase; bombesin/gastrin releasing peptide receptors --- laminin receptor; bombesin/gastrin releasing peptide receptors --- matrilysin; bombesin/gastrin releasing peptide receptors --- matripase; bombesin/gastrin releasing peptide receptors --- melanocyte stimulating hormone receptor; bombesin/gastrin releasing peptide receptors --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); bombesin/gastrin

releasing peptide receptors --- norepinephrine transporters; bombesin/gastrin releasing peptide receptors --- nucleoside transporter proteins; bombesin/gastrin releasing peptide receptors --- peripheral benzodiazepam binding receptors; bombesin/gastrin releasing peptide receptors --- seprase; bombesin/gastrin releasing peptide receptors --- sigma receptors; bombesin/gastrin releasing peptide receptors --- somatostatin receptors; bombesin/gastrin releasing peptide receptors --- stromelysin 3; bombesin/gastrin releasing peptide receptors --- trypsin; bombesin/gastrin releasing peptide receptors --- MMP 1; bombesin/gastrin releasing peptide receptors --- MMP 2; bombesin/gastrin releasing peptide receptors --- MMP 3; bombesin/gastrin releasing peptide receptors --- MMP 7; bombesin/gastrin releasing peptide receptors --- MMP 9; bombesin/gastrin releasing peptide receptors --- membrane type matrix metalloproteinase I; bombesin/gastrin releasing peptide receptors --- MMP 12; bombesin/gastrin releasing peptide receptors --- MMP 13; bombesin/gastrin releasing peptide receptors --- a tumor antigen; fibroblast activation protein --- a cathepsin type protease; fibroblast activation protein --- cathepsin D; fibroblast activation protein --- to cathepsin K; fibroblast activation protein --- cathepsin L; fibroblast activation protein --- cathepsin O; fibroblast activation protein --- fibroblast activation protein; fibroblast activation protein --- folate binding receptors; fibroblast activation protein --- gastrin/cholecystokinin type B receptor; fibroblast activation protein --- glutamate carboxypeptidase II or (PSMA); fibroblast activation protein --- guanidinobenzoatase; fibroblast activation protein --- laminin receptor; fibroblast activation protein --- matrilysin; fibroblast activation protein --- matripase; fibroblast activation protein --- melanocyte stimulating hormone receptor; fibroblast activation protein --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); fibroblast activation protein --- norepinephrine transporters; fibroblast activation protein --- nucleoside transporter proteins; fibroblast activation protein --- peripheral benzodiazepam binding receptors; fibroblast activation protein --- plasmin; fibroblast activation protein --- seprase; fibroblast activation protein --- sigma receptors; fibroblast activation protein --- somatostatin receptors; fibroblast activation protein --- stromelysin 3; fibroblast activation protein --- trypsin; fibroblast activation protein ---

MMP 1; fibroblast activation protein --- MMP 2; fibroblast activation protein --- MMP 3; fibroblast activation protein --- MMP 7; fibroblast activation protein --- MMP 9; fibroblast activation protein --- membrane type matrix metalloproteinase I; fibroblast activation protein --- MMP 12; fibroblast activation protein --- MMP 13; fibroblast activation protein --- a tumor antigen; glutamate carboxypeptidase II or PSMA --- cathepsin D; glutamate carboxypeptidase II or PSMA --- to cathepsin K; glutamate carboxypeptidase II or PSMA --- cathepsin L; glutamate carboxypeptidase II or PSMA --- cathepsin O; glutamate carboxypeptidase II or PSMA --- fibroblast activation protein; glutamate carboxypeptidase II or PSMA --- folate binding receptors; glutamate carboxypeptidase II or PSMA --- gastrin/cholecystokinin type B receptor; glutamate carboxypeptidase II or PSMA --- glutamate carboxypeptidase II or (PSMA); glutamate carboxypeptidase II or PSMA --- guanidinobenzoatase; glutamate carboxypeptidase II or PSMA --- laminin receptor; glutamate carboxypeptidase II or PSMA --- matrilysin; glutamate carboxypeptidase II or PSMA --- matripase; glutamate carboxypeptidase II or PSMA --- melanocyte stimulating hormone receptor; glutamate carboxypeptidase II or PSMA --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); glutamate carboxypeptidase II or PSMA --- nucleoside transporter proteins; glutamate carboxypeptidase II or PSMA --- peripheral benzodiazepam binding receptors; glutamate carboxypeptidase II or PSMA --- seprase; glutamate carboxypeptidase II or PSMA --- sigma receptors; glutamate carboxypeptidase II or PSMA --- somatostatin receptors; glutamate carboxypeptidase II or PSMA --- stromelysin 3; glutamate carboxypeptidase II or PSMA --- trypsin; glutamate carboxypeptidase II or PSMA --- MMP 1; glutamate carboxypeptidase II or PSMA --- MMP 2; glutamate carboxypeptidase II or PSMA --- MMP 3; glutamate carboxypeptidase II or PSMA --- MMP 7; glutamate carboxypeptidase II or PSMA --- MMP 9; glutamate carboxypeptidase II or PSMA --- membrane type matrix metalloproteinase I; glutamate carboxypeptidase II or PSMA --- MMP 12; glutamate carboxypeptidase II or PSMA --- MMP 13; glutamate carboxypeptidase II or PSMA --- a tumor antigen; laminin receptor --- a cathepsin type protease; laminin receptor --- cathepsin B; laminin receptor --- cathepsin D; laminin receptor --- to cathepsin K;

laminin receptor --- cathepsin L; laminin receptor --- cathepsin O; laminin receptor --- fibroblast activation protein; laminin receptor --- folate binding receptors; laminin receptor --- gastrin/cholecystokinin type B receptor; laminin receptor --- guanidinobenzoatase; laminin receptor --- laminin receptor; laminin receptor --- matrilysin; laminin receptor --- matripase; laminin receptor --- melanocyte stimulating hormone receptor; laminin receptor --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); laminin receptor --- norepinephrine transporters; laminin receptor --- nucleoside transporter proteins; laminin receptor --- peripheral benzodiazepam binding receptors; laminin receptor --- seprase; laminin receptor --- sigma receptors; laminin receptor --- somatostatin receptors; laminin receptor --- stromelysin 3; laminin receptor --- trypsin; laminin receptor --- MMP 1; laminin receptor --- MMP 2; laminin receptor --- MMP 3; laminin receptor --- MMP 7; laminin receptor --- MMP 9; laminin receptor --- membrane type matrix metalloproteinase I ; laminin receptor --- MMP 12; laminin receptor --- MMP 13; laminin receptor --- a tumor antigen; seprase --- a cathepsin type protease; seprase --- cathepsin D; seprase --- to cathepsin K; seprase --- cathepsin L; seprase --- cathepsin O; seprase --- fibroblast activation protein; seprase --- folate binding receptors; seprase --- gastrin/cholecystokinin type B receptor; seprase --- guanidinobenzoatase; seprase --- matripase; seprase --- melanocyte stimulating hormone receptor; seprase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); seprase --- norepinephrine transporters; seprase --- nucleoside transporter proteins; seprase --- peripheral benzodiazepam binding receptors; seprase --- seprase; seprase --- sigma receptors; seprase --- somatostatin receptors; seprase --- stromelysin 3; seprase --- trypsin; seprase --- MMP 1; seprase --- MMP 2; seprase --- MMP 3; seprase --- MMP 7; seprase --- MMP 9; seprase --- membrane type matrix metalloproteinase I; seprase --- MMP 12; seprase --- MMP 13; seprase --- a tumor antigen; guanidinobenzoatase --- a cathepsin type protease; guanidinobenzoatase --- cathepsin D; guanidinobenzoatase --- to cathepsin K; guanidinobenzoatase --- cathepsin L; guanidinobenzoatase --- cathepsin O; guanidinobenzoatase --- fibroblast activation protein; guanidinobenzoatase --- folate binding receptors;

guanidinobenzoatase --- gastrin/cholecystokinin type B receptor; guanidinobenzoatase --- guanidinobenzoatase; guanidinobenzoatase --- matripase; guanidinobenzoatase --- melanocyte stimulating hormone receptor; guanidinobenzoatase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); guanidinobenzoatase --- norepinephrine transporters; guanidinobenzoatase --- nucleoside transporter proteins; guanidinobenzoatase --- peripheral benzodiazepam binding receptors; guanidinobenzoatase --- sigma receptors; guanidinobenzoatase --- somatostatin receptors; guanidinobenzoatase --- stromelysin 3; guanidinobenzoatase --- trypsin; guanidinobenzoatase --- MMP 1; guanidinobenzoatase --- MMP 2; guanidinobenzoatase --- MMP 3; guanidinobenzoatase --- MMP 7; guanidinobenzoatase --- MMP 9; guanidinobenzoatase --- membrane type matrix metalloproteinase I; guanidinobenzoatase --- MMP 12; guanidinobenzoatase --- MMP 13; guanidinobenzoatase --- a tumor antigen; peripheral benzodiazepam binding receptors --- a cathepsin type protease; peripheral benzodiazepam binding receptors --- cathepsin D; peripheral benzodiazepam binding receptors --- to cathepsin K; peripheral benzodiazepam binding receptors --- cathepsin L; peripheral benzodiazepam binding receptors --- cathepsin O; peripheral benzodiazepam binding receptors --- fibroblast activation protein; peripheral benzodiazepam binding receptors --- folate binding receptors; peripheral benzodiazepam binding receptors --- gastrin/cholecystokinin type B receptor; peripheral benzodiazepam binding receptors --- guanidinobenzoatase; peripheral benzodiazepam binding receptors --- matripase; peripheral benzodiazepam binding receptors --- melanocyte stimulating hormone receptor; peripheral benzodiazepam binding receptors --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); peripheral benzodiazepam binding receptors --- norepinephrine transporters; peripheral benzodiazepam binding receptors --- nucleoside transporter proteins; peripheral benzodiazepam binding receptors --- peripheral benzodiazepam binding receptors; peripheral benzodiazepam binding receptors --- sigma receptors; peripheral benzodiazepam binding receptors --- somatostatin receptors; peripheral benzodiazepam binding receptors --- stromelysin 3; peripheral benzodiazepam binding receptors --- trypsin; peripheral benzodiazepam

binding receptors --- MMP 1; peripheral benzodiazepam binding receptors --- MMP 2; peripheral benzodiazepam binding receptors --- MMP 3; peripheral benzodiazepam binding receptors --- MMP 7; peripheral benzodiazepam binding receptors --- MMP 9; peripheral benzodiazepam binding receptors --- membrane type matrix metalloproteinase I; peripheral benzodiazepam binding receptors --- MMP 12; peripheral benzodiazepam binding receptors --- MMP 13; peripheral benzodiazepam binding receptors --- a tumor antigen; folate binding receptors --- a cathepsin type protease; folate binding receptors --- cathepsin D; folate binding receptors --- to cathepsin K; folate binding receptors --- cathepsin L; folate binding receptors --- cathepsin O; folate binding receptors --- fibroblast activation protein; folate binding receptors --- folate binding receptors; folate binding receptors --- matripase; folate binding receptors --- melanocyte stimulating hormone receptor; folate binding receptors --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); folate binding receptors --- norepinephrine transporters; folate binding receptors --- nucleoside transporter proteins; folate binding receptors --- sigma receptors; folate binding receptors --- somatostatin receptors; folate binding receptors --- stromelysin 3; folate binding receptors --- trypsin; folate binding receptors --- MMP 1; folate binding receptors --- MMP 2; folate binding receptors --- MMP 3; folate binding receptors --- MMP 7; folate binding receptors --- MMP 9; folate binding receptors --- membrane type matrix metalloproteinase I; folate binding receptors --- MMP 12; folate binding receptors --- MMP 13; folate binding receptors --- a tumor antigen; folate binding receptors --- a cathepsin type protease; folate binding receptors --- cathepsin D; folate binding receptors --- to cathepsin K; folate binding receptors --- cathepsin L; folate binding receptors --- cathepsin O; folate binding receptors --- fibroblast activation protein; folate binding receptors --- folate binding receptors; folate binding receptors --- matripase; folate binding receptors --- melanocyte stimulating hormone receptor; folate binding receptors --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); folate binding receptors --- norepinephrine transporters; folate binding receptors --- nucleoside transporter proteins; folate binding receptors --- sigma receptors; folate binding receptors --- somatostatin receptors; folate binding receptors ---

stromelysin 3; folate binding receptors --- trypsin; folate binding receptors --- MMP 1; folate binding receptors --- MMP 2; folate binding receptors --- MMP 3; folate binding receptors --- MMP 7; folate binding receptors --- MMP 9; folate binding receptors --- membrane type matrix metalloproteinase I; folate binding receptors --- MMP 12; folate binding receptors --- MMP 13; folate binding receptors --- a tumor antigen; nucleoside transporter proteins --- a cathepsin type protease; nucleoside transporter proteins --- cathepsin D; nucleoside transporter proteins --- to cathepsin K; nucleoside transporter proteins --- cathepsin L; nucleoside transporter proteins --- cathepsin O; nucleoside transporter proteins --- fibroblast activation protein; nucleoside transporter proteins --- nucleoside transporter proteins; nucleoside transporter proteins --- matripase; nucleoside transporter proteins --- melanocyte stimulating hormone receptor; nucleoside transporter proteins --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter); nucleoside transporter proteins --- norepinephrine transporters; nucleoside transporter proteins --- nucleoside transporter proteins; nucleoside transporter proteins --- sigma receptors; nucleoside transporter proteins --- somatostatin receptors; nucleoside transporter proteins --- stromelysin 3; nucleoside transporter proteins --- trypsin; nucleoside transporter proteins --- MMP 1; nucleoside transporter proteins --- MMP 2; nucleoside transporter proteins --- MMP 3; nucleoside transporter proteins --- MMP 7; nucleoside transporter proteins --- MMP 9; nucleoside transporter proteins --- membrane type matrix metalloproteinase I; nucleoside transporter proteins --- MMP 12; nucleoside transporter proteins --- MMP 13; nucleoside transporter proteins --- a tumor antigen; melanocyte stimulating hormone receptor --- a cathepsin type protease; melanocyte stimulating hormone receptor --- cathepsin D; melanocyte stimulating hormone receptor --- to cathepsin K; melanocyte stimulating hormone receptor --- cathepsin L; melanocyte stimulating hormone receptor --- cathepsin O; melanocyte stimulating hormone receptor --- fibroblast activation protein; melanocyte stimulating hormone receptor --- melanocyte stimulating hormone receptor; melanocyte stimulating hormone receptor --- melanocyte stimulating hormone receptor; melanocyte stimulating hormone receptor --- nitrobenzylthioinosine-binding receptors or (nucleoside

transporter); melanocyte stimulating hormone receptor --- norepinephrine transporters; melanocyte stimulating hormone receptor --- nucleoside transporter proteins; melanocyte stimulating hormone receptor --- sigma receptors; melanocyte stimulating hormone receptor --- somatostatin receptors; melanocyte stimulating hormone receptor --- stromelysin 3; melanocyte stimulating hormone receptor --- trypsin; melanocyte stimulating hormone receptor --- MMP 1; melanocyte stimulating hormone receptor --- MMP 2; melanocyte stimulating hormone receptor --- MMP 3; melanocyte stimulating hormone receptor --- MMP 7; melanocyte stimulating hormone receptor --- MMP 9; melanocyte stimulating hormone receptor --- membrane type matrix metalloproteinase I; melanocyte stimulating hormone receptor --- MMP 12; melanocyte stimulating hormone receptor --- MMP 13; melanocyte stimulating hormone receptor --- a tumor antigen; sigma receptors --- a cathepsin type protease; sigma receptors --- cathepsin D; sigma receptors --- to cathepsin K; sigma receptors --- cathepsin L; sigma receptors --- cathepsin O; sigma receptors --- fibroblast activation protein; sigma receptors --- sigma receptors; sigma receptors --- matripase; sigma receptors --- norepinephrine transporters; sigma receptors --- sigma receptors; sigma receptors --- somatostatin receptors; sigma receptors --- stromelysin 3; sigma receptors --- trypsin; sigma receptors --- MMP 1; sigma receptors --- MMP 2; sigma receptors --- MMP 3; sigma receptors --- MMP 7; sigma receptors --- MMP 9; sigma receptors --- membrane type matrix metalloproteinase I; sigma receptors --- MMP 12; sigma receptors --- MMP 13; sigma receptors --- a tumor antigen; somatostatin receptors --- a cathepsin type protease; somatostatin receptors --- cathepsin D; somatostatin receptors --- to cathepsin K; somatostatin receptors --- cathepsin L; somatostatin receptors --- cathepsin O; somatostatin receptors --- fibroblast activation protein; somatostatin receptors --- somatostatin receptors; somatostatin receptors --- matripase; somatostatin receptors --- melanocyte stimulating hormone receptor; somatostatin receptors --- sigma receptors; somatostatin receptors --- somatostatin receptors; somatostatin receptors --- stromelysin 3; somatostatin receptors --- trypsin; somatostatin receptors --- MMP 1; somatostatin receptors --- MMP 2; somatostatin receptors --- MMP 3; somatostatin receptors --- MMP 7; somatostatin receptors ---

MMP 9; somatostatin receptors --- membrane type matrix metalloproteinase I; somatostatin receptors --- MMP 12; somatostatin receptors --- MMP 13; somatostatin receptors --- a tumor antigen; stromelysin 3 --- a cathepsin type protease; stromelysin 3 --- cathepsin D; stromelysin 3 --- to cathepsin K; stromelysin 3 --- cathepsin L; stromelysin 3 --- cathepsin O; stromelysin 3 --- fibroblast activation protein; stromelysin 3 --- stromelysin 3; stromelysin 3 --- matripase; stromelysin 3 --- melanocyte stimulating hormone receptor; stromelysin 3 --- somatostatin receptors; stromelysin 3 --- trypsin; stromelysin 3 --- MMP 1; stromelysin 3 --- MMP 2; stromelysin 3 --- MMP 3; stromelysin 3 --- MMP 7; stromelysin 3 --- MMP 9; stromelysin 3 --- membrane type matrix metalloproteinase I; stromelysin 3 --- MMP 12; stromelysin 3 --- MMP 13; stromelysin 3 --- a tumor antigen; trypsin --- a cathepsin type protease; trypsin --- cathepsin D; trypsin --- to cathepsin K; trypsin --- cathepsin L; trypsin --- cathepsin O; trypsin --- fibroblast activation protein; trypsin --- trypsin; trypsin --- matripase; trypsin --- melanocyte stimulating hormone receptor; trypsin --- stromelysin 3; trypsin --- MMP 1; trypsin --- MMP 2; trypsin --- MMP 3; trypsin --- MMP 7; trypsin --- MMP 9; trypsin --- membrane type matrix metalloproteinase I; trypsin --- MMP 12; trypsin --- MMP 13; trypsin --- a tumor antigen; MMP 1 --- a cathepsin type protease; MMP 1 --- cathepsin D; MMP 1 --- to cathepsin K; MMP 1 --- cathepsin L; MMP 1 --- cathepsin O; MMP 1 --- fibroblast activation protein; MMP 1 --- matripase; MMP 1 --- melanocyte stimulating hormone receptor; MMP 1 --- stromelysin 3; MMP 1 --- MMP 1; MMP 1 --- MMP 2; MMP 1 --- MMP 3; MMP 1 --- MMP 7; MMP 1 --- MMP 9; MMP 1 --- membrane type matrix metalloproteinase I; MMP 1 --- MMP 12; MMP 1 --- MMP 13; MMP 1 --- a tumor antigen; MMP-2 --- a cathepsin type protease; MMP-2 --- cathepsin D; MMP-2 --- to cathepsin K; MMP-2 --- cathepsin L; MMP-2 --- cathepsin O; MMP-2 --- fibroblast activation protein; MMP-2 --- matripase; MMP-2 --- melanocyte stimulating hormone receptor; MMP-2 --- stromelysin 3; MMP-2 --- MMP 2; MMP-2 --- MMP 3; MMP-2 --- MMP 7; MMP-2 --- MMP 9; MMP-2 --- membrane type matrix metalloproteinase I; MMP-2 --- MMP-2; MMP-2 --- MMP-3; MMP-2 --- a tumor antigen; MMP-3 --- a cathepsin type protease; MMP-3 --- cathepsin

D; MMP-3 --- to cathepsin K; MMP-3 --- cathepsin L; MMP-3 --- cathepsin O; MMP-3 --- matripase; MMP-3 --- MMP 3; MMP-3 --- MMP 7; MMP-3 --- MMP 9; MMP-3 --- membrane type matrix metalloproteinase I; MMP-3 --- MMP-3; MMP-3 --- a tumor antigen; MMP 7 --- a cathepsin type protease; MMP 7 --- cathepsin D; MMP 7 --- to cathepsin K; MMP 7 --- cathepsin L; MMP 7 --- cathepsin O; MMP 7 --- fibroblast activation protein; MMP 7 --- matripase; MMP 7 --- stromelysin 3; MMP 7 --- MMP 7; MMP 7 --- MMP 9; MMP 7 --- membrane type matrix metalloproteinase I; MMP 7 --- a tumor antigen; MMP 9 --- a cathepsin type protease; MMP 9 --- cathepsin D; MMP 9 --- to cathepsin K; MMP 9 --- cathepsin L; MMP 9 --- cathepsin O; MMP 9 --- matripase; MMP 9 --- MMP 9; MMP 9 --- membrane type matrix metalloproteinase I; MMP 9 --- a tumor antigen; MMP 12 --- a cathepsin type protease; MMP 12 --- cathepsin D; MMP 12 --- to cathepsin K; MMP 12 --- cathepsin L; MMP 12 --- cathepsin O; MMP 12 --- matripase; MMP 12 --- MMP 2; MMP 12 --- membrane type matrix metalloproteinase I; MMP 12 --- a tumor antigen; MMP 13 --- a cathepsin type protease; MMP 13 --- cathepsin D; MMP 13 --- to cathepsin K; MMP 13 --- cathepsin L; MMP 13 --- cathepsin O; MMP 13 --- matripase; MMP 13 --- membrane type matrix metalloproteinase I; MMP 13 --- a tumor antigen; Membrane type matrix metalloproteinase --- a cathepsin type protease; Membrane type matrix metalloproteinase --- cathepsin D; Membrane type matrix metalloproteinase --- to cathepsin K; Membrane type matrix metalloproteinase --- cathepsin L; Membrane type matrix metalloproteinase --- cathepsin O; Membrane type matrix metalloproteinase --- matripase; Membrane type matrix metalloproteinase --- membrane type matrix metalloproteinase I; and Membrane type matrix metalloproteinase --- a tumor antigen.

16. (currently amended) ~~A compound~~ The anticancer drug ET of claim 15 that ~~is also comprised of~~ further comprising a third targeting ligand receptor that binds to a receptor that is present at increased amounts at a tumor cell compared to at a normal cell.

17. (currently amended) ~~A compound~~ The anticancer drug ET of claim 16 in which the third targeting ligand alone binds to PSMA or glutamate carboxypeptidase II.

18. (currently amended) ~~A compound~~ The anticancer drug ET of claim [[4]] 3 in which the effector agent ~~of ET~~ is comprised of a group with the structure RN-L-V, wherein RN is a group that binds to ~~the~~ a target ~~biomolecule~~ receptor referred to as "rn"; and L is a linker, and V is a group that can covalently modify the target receptor rn; and wherein RN-L-V can bind to rn and irreversibly chemically modify rn.

19. (currently amended) ~~A compound~~ The anticancer drug ET of claim 18 in which V is comprised of a chemical group that generates free radicals and wherein the generated free radicals irreversibly chemically modify the target biomolecule rn.

20. (currently amended) ~~A compound~~ The anticancer drug ET of claim 19 in which the free radical generator V is a non-radioactive metal- chelator complex.

21. (currently amended) ~~A compound~~ The anticancer drug ET of claim 13 in which the effector agent is comprised of a structure that is modified by the enzymatic activity of a biomolecule and wherein this modification inactivates ~~said~~ the biomolecule and in the process irreversibly chemically modifies ~~said~~ the biomolecule.

22. (currently amended) ~~A compound~~ The anticancer drug ET of claim 3 [[4]] further comprising a ~~second~~ group ~~wherein said second group~~ which binds to a receptor present in increased amounts at a target cell compared to at a non-target cell and wherein ~~said second~~ the group is comprised of:

I. a monoclonal antibody; or

II. targeting receptor binding fragment of a monoclonal antibody; or

III. an analog ~~or derivative which bears amino acid sequence similarity to portions~~ of a monoclonal antibody; ~~or~~

IV. a natural protein, or a complex of natural proteins, or a protein; or

V. a naturally occurring polymer.

23. (currently amended) A compound ~~with a group, referred to as a~~ comprising an effector molecule that evokes tumor cell killing and a "masked intracellular transport ligand" wherein the masked intracellular transport ligand ~~which~~ can be modified in vivo to give ~~a group referred to as~~ an "intracellular transport ligand" which binds to a cell receptor that actively transports bound ligands and the effector molecule into the cell, and wherein the effector molecule and the intracellular transport ligand are different.

24. (withdrawn) A method of stimulating an immune response against a tumor and for treating a patient with cancer which comprises the following steps:

I. Immunizing or sensitizing a patient to a compound referred to as a neoantigen; and

II. Administering to the patient a compound referred to as a neoantigen generating compound; wherein said compound can irreversibly chemically modify a component of the tumor resulting in the generation of said neoantigen at the tumor.

25. (withdrawn) A The method of claim 24 in which the tumor component modified is selected from the following list:

1. Prostate specific Antigen
2. Human glandular kallikrein 2
3. Prostatic acid phosphatase
4. Plasmin
5. Placental type alkaline phosphatase
6. Matriptase
7. Matrix metalloproteinases
8. Thymidine phosphorylase
9. Trypsin

10. Urokinase
11. Fatty Acid Synthase
12. Steroid sulfatase
13. Epidermal growth factor receptor
14. Mitogen activated protein kinase kinase
15. Phosphatidylinositol 3-kinase
16. Mitogen activated protein kinase
17. Mitogen activated protein kinase
18. Thymidylate synthase
19. Protein kinase A
20. Fibroblast activation protein/ seprase
21. P-glycoprotein

26. (withdrawn) A method of stimulating an immune response against a tumor and for treating a patient with cancer which comprises the following steps:

I. Immunizing or sensitizing a patient to a compound referred to as a neoantigen; and

II. Administering to the patient a compound of claim 13 referred to as a neoantigen generating compound; wherein said compound can irreversibly chemically modify a component of the tumor resulting in the generation of said neoantigen at the tumor.

27. (currently amended) A set of anticancer drugs referred to as "E1T1" and "E2T2" for use together or for co-administration to a patient, wherein E1 and E2 are effector agents that exhibit ~~synergistic~~ toxicity to a cell; and wherein T1 comprises a <u>first</u> targeting ligand that binds to a first target receptor and T2 comprises a second targeting ligand that binds to ~~the~~ <u>a</u> second target receptor which is increased on a tumor cell compared to a normal cell and where the first targeting ligand binds to a targeting receptor selected from the following list:

1. a cathepsin type protease
2. a collagenase
3. a gelatinase
4. a matrix metalloproteinase
5. a membrane type matrix metalloproteinase
6. alpha v beta 3 integrin
7. bombesin /gastrin releasing peptide receptors
8. cathepsin B
9. cathepsin D
10. cathepsin K
11. cathepsin L
12. cathepsin O
13. fibroblast activation protein
14. folate binding receptors
15. gastrin/cholecystokinin type B receptor
16. glutamate carboxypeptidase II or (PSMA)
17. guanidinobenzoatase
18. laminin receptor
19. matrilysin
20. matripase
21. melanocyte stimulating hormone receptor
22. nitrobenzylthioinosine-binding receptors
23. norepenephrine transporters
24. nucleoside transporter proteins
25. peripheral benzodiazepam binding receptors
26. plasmin
27. seprase
28. sigma receptors
29. somatostatin receptors
30. stromelysin 3

31. trypsin
32. urokinase
33. MMP 1
34. MMP 2
35. MMP 3
36. MMP 7
37. MMP 9
38. Membrane type matrix metalloproteinase I
39. MMP 12 and
40. MMP 13.

28. (currently amended) ~~A set of compounds~~ The set of anticancer drugs of claim 27 wherein the effector agent E1 inhibits the denovo synthesis of a biomolecule(s) that is necessary for cell replication and/or survival, and the effector agent E2 inhibits a salvage pathway(s) that can enable a cell to by- pass the metabolic block caused by E1.

29. (currently amended) ~~A set of compounds~~ The set of anticancer drugs ~~of E1T1 and E2T2~~ of claim 28 wherein ~~T1 comprises a targeting ligand that binds to~~ the first target receptor is (a1); and ~~T2 comprises a second targeting ligand that binds to~~ the second target receptor is (a2) indicated in the pairs of (a1 --- a2) listed below:

1. urokinase --- a cathepsin type protease;
2. urokinase --- a collagenase;
3. urokinase --- a gelatinase;
4. urokinase --- a matrix metalloproteinase;
5. urokinase --- a membrane type matrix metalloproteinase;
6. urokinase --- alpha v beta 3 integrin;
7. urokinase --- bombesin /gastrin releasing peptide receptors;
8. urokinase --- cathepsin B;
9. urokinase --- cathepsin D;
10. urokinase --- to cathepsin K;

11. urokinase --- cathepsin L;
12. urokinase --- cathepsin O;
13. urokinase --- fibroblast activation protein;
14. urokinase --- folate binding receptors;
15. urokinase --- gastrin/cholecystokinin type B receptor;
16. urokinase --- glutamate carboxypeptidase II or (PSMA);
17. urokinase --- guanidinobenzoatase;
18. urokinase --- laminin receptor;
19. urokinase --- matrilysin;
20. urokinase --- matripase;
21. urokinase --- melanocyte stimulating hormone receptor;
22. urokinase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
23. urokinase --- norepinephrine transporters;
24. urokinase --- nucleoside transporter proteins;
25. urokinase --- peripheral benzodiazepam binding receptors;
26. urokinase --- plasmin;
27. urokinase --- seprase;
28. urokinase --- sigma receptors;
29. urokinase --- somatostatin receptors;
30. urokinase --- stromelysin 3;
31. urokinase --- trypsin;
32. urokinase --- urokinase;
33. urokinase --- MMP 1;
34. urokinase --- MMP 2;
35. urokinase --- MMP 3;
36. urokinase --- MMP 7;
37. urokinase --- MMP 9;
38. urokinase --- membrane type matrix metalloproteinase I;
39. urokinase --- MMP 12;
40. urokinase --- MMP 13;

41. urokinase --- a tumor antigen;
42. plasmin --- a cathepsin type protease;
43. plasmin --- a collagenase;
44. plasmin --- a gelatinase;
45. plasmin --- a matrix metalloproteinase;
46. plasmin --- a membrane type matrix metalloproteinase;
47. plasmin --- alpha v beta 3 integrin;
48. plasmin --- bombesin /gastrin releasing peptide receptors;
49. plasmin --- cathepsin B;
50. plasmin --- cathepsin D;
51. plasmin --- to cathepsin K;
52. plasmin --- cathepsin L;
53. plasmin --- cathepsin O;
54. plasmin --- fibroblast activation protein;
55. plasmin --- folate binding receptors;
56. plasmin --- gastrin/cholecystokinin type B receptor;
57. plasmin --- glutamate carboxypeptidase II or (PSMA);
58. plasmin --- guanidinobenzoatase;
59. plasmin --- laminin receptor;
60. plasmin --- matrilysin;
61. plasmin --- matripase;
62. plasmin --- melanocyte stimulating hormone receptor;
63. plasmin --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
64. plasmin --- norepinephrine transporters;
65. plasmin --- nucleoside transporter proteins;
66. plasmin --- peripheral benzodiazepam binding receptors;
67. plasmin --- plasmin;
68. plasmin --- seprase;
69. plasmin --- sigma receptors;
70. plasmin --- somatostatin receptors;

71. plasmin --- stromelysin 3;
72. plasmin --- trypsin;
73. plasmin --- urokinase;
74. plasmin --- MMP 1;
75. plasmin --- MMP 2;
76. plasmin --- MMP 3;
77. plasmin --- MMP 7;
78. plasmin --- MMP 9;
79. plasmin --- membrane type matrix metalloproteinase I ;
80. plasmin --- MMP 12;
81. plasmin --- MMP 13;
82. plasmin --- a tumor antigen;
83. a collagenase --- a cathepsin type protease;
84. a collagenase --- a collagenase;
85. a collagenase --- a gelatinase;
86. a collagenase --- a matrix metalloproteinase;
87. a collagenase --- a membrane type matrix metalloproteinase;
88. a collagenase --- alpha v beta 3 integrin;
89. a collagenase --- bombesin /gastrin releasing peptide receptors;
90. a collagenase --- cathepsin B;
91. a collagenase --- cathepsin D;
92. a collagenase --- to cathepsin K;
93. a collagenase --- cathepsin L;
94. a collagenase --- cathepsin O;
95. a collagenase --- fibroblast activation protein;
96. a collagenase --- folate binding receptors;
97. a collagenase --- gastrin/cholecystokinin type B receptor;
98. a collagenase --- glutamate carboxypeptidase II or (PSMA);
99. a collagenase --- guanidinobenzoatase;
100. a collagenase --- laminin receptor;

101. a collagenase --- matrilysin;
102. a collagenase --- matripase;
103. a collagenase --- melanocyte stimulating hormone receptor;
104. a collagenase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
105. a collagenase --- norepinephrine transporters;
106. a collagenase --- nucleoside transporter proteins;
107. a collagenase --- peripheral benzodiazepam binding receptors;
108. a collagenase --- seprase;
109. a collagenase --- sigma receptors;
110. a collagenase --- somatostatin receptors;
111. a collagenase --- stromelysin 3;
112. a collagenase --- trypsin;
113. a collagenase --- a collagenase;
114. a collagenase --- MMP 1;
115. a collagenase --- MMP 2;
116. a collagenase --- MMP 3;
117. a collagenase --- MMP 7;
118. a collagenase --- MMP 9;
119. a collagenase --- membrane type matrix metalloproteinase I;
120. a collagenase --- MMP 12;
121. a collagenase --- MMP 13;
122. a collagenase --- a tumor antigen;
123. a gelatinase --- a cathepsin type protease;
124. a gelatinase --- a gelatinase;
125. a gelatinase --- a matrix metalloproteinase;
126. a gelatinase --- a membrane type matrix metalloproteinase;
127. a gelatinase --- alpha v beta 3 integrin;
128. a gelatinase --- bombesin /gastrin releasing peptide receptors;
129. a gelatinase --- cathepsin B;

130. a gelatinase --- cathepsin D;
131. a gelatinase --- to cathepsin K;
132. a gelatinase --- cathepsin L;
133. a gelatinase --- cathepsin O;
134. a gelatinase --- fibroblast activation protein;
135. a gelatinase --- folate binding receptors;
136. a gelatinase --- gastrin/cholecystokinin type B receptor;
137. a gelatinase --- glutamate carboxypeptidase II or (PSMA);
138. a gelatinase --- guanidinobenzoatase;
139. a gelatinase --- laminin receptor;
140. a gelatinase --- matrilysin;
141. a gelatinase --- matripase;
142. a gelatinase --- melanocyte stimulating hormone receptor;
143. a gelatinase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
144. a gelatinase --- norepinephrine transporters;
145. a gelatinase --- nucleoside transporter proteins;
146. a gelatinase --- peripheral benzodiazepam binding receptors;
147. a gelatinase --- seprase;
148. a gelatinase --- sigma receptors;
149. a gelatinase --- somatostatin receptors;
150. a gelatinase --- stromelysin 3;
151. a gelatinase --- trypsin;
152. a gelatinase --- MMP 1;
153. a gelatinase --- MMP 2;
154. a gelatinase --- MMP 3;
155. a gelatinase --- MMP 7;
156. a gelatinase --- MMP 9;
157. a gelatinase --- membrane type matrix metalloproteinase I;
158. a gelatinase --- MMP 12;

159. a gelatinase --- MMP 13;
160. a gelatinase --- a tumor antigen;
161. a matrix metalloproteinase --- a cathepsin type protease;
162. a matrix metalloproteinase --- a collagenase;
163. a matrix metalloproteinase --- a gelatinase;
164. a matrix metalloproteinase --- a matrix metalloproteinase;
165. a matrix metalloproteinase --- a membrane type matrix metalloproteinase;
166. a matrix metalloproteinase --- alpha v beta 3 integrin;
167. a matrix metalloproteinase --- bombesin /gastrin releasing peptide receptors;
168. a matrix metalloproteinase --- cathepsin B;
169. a matrix metalloproteinase --- cathepsin D;
170. a matrix metalloproteinase --- to cathepsin K;
171. a matrix metalloproteinase --- cathepsin L;
172. a matrix metalloproteinase --- cathepsin O;
173. a matrix metalloproteinase --- fibroblast activation protein;
174. a matrix metalloproteinase --- folate binding receptors;
175. a matrix metalloproteinase --- gastrin/cholecystokinin type B receptor;
176. a matrix metalloproteinase --- glutamate carboxypeptidase II or (PSMA);
177. a matrix metalloproteinase --- guanidinobenzoatase;
178. a matrix metalloproteinase --- laminin receptor;
179. a matrix metalloproteinase --- matrilysin;
180. a matrix metalloproteinase --- matripase;
181. a matrix metalloproteinase --- melanocyte stimulating hormone receptor;
182. a matrix metalloproteinase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
183. a matrix metalloproteinase --- norepinephrine transporters;
184. a matrix metalloproteinase --- nucleoside transporter proteins;
185. a matrix metalloproteinase --- peripheral benzodiazepam binding receptors;
186. a matrix metalloproteinase --- plasmin;
187. a matrix metalloproteinase --- seprase;

188. a matrix metalloproteinase --- sigma receptors;
189. a matrix metalloproteinase --- somatostatin receptors;
190. a matrix metalloproteinase --- stromelysin 3;
191. a matrix metalloproteinase --- trypsin;
192. a matrix metalloproteinase --- a matrix metalloproteinase;
193. a matrix metalloproteinase --- MMP 1;
194. a matrix metalloproteinase --- MMP 2;
195. a matrix metalloproteinase --- MMP 3;
196. a matrix metalloproteinase --- MMP 7;
197. a matrix metalloproteinase --- MMP 9;
198. a matrix metalloproteinase --- membrane type matrix metalloproteinase I;
199. a matrix metalloproteinase --- MMP 12;
200. a matrix metalloproteinase --- MMP 13;
201. a matrix metalloproteinase --- a tumor antigen;
202. a membrane type metalloproteinase --- a cathepsin type protease;
203. a membrane type metalloproteinase --- a membrane type matrix metalloproteinase;
204. a membrane type metalloproteinase --- alpha v beta 3 integrin;
205. a membrane type metalloproteinase --- bombesin /gastrin releasing peptide receptors;
206. a membrane type metalloproteinase --- cathepsin B;
207. a membrane type metalloproteinase --- cathepsin D;
208. a membrane type metalloproteinase --- to cathepsin K;
209. a membrane type metalloproteinase --- cathepsin L;
210. a membrane type metalloproteinase --- cathepsin O;
211. a membrane type metalloproteinase --- fibroblast activation protein;
212. a membrane type metalloproteinase --- folate binding receptors;
213. a membrane type metalloproteinase --- gastrin/cholecystokinin type B receptor;
214. a membrane type metalloproteinase --- glutamate carboxypeptidase II or (PSMA);
215. a membrane type metalloproteinase --- guanidinobenzoatase;

216. a membrane type metalloproteinase --- laminin receptor;
217. a membrane type metalloproteinase --- matrilysin;
218. a membrane type metalloproteinase --- matripase;
219. a membrane type metalloproteinase --- melanocyte stimulating hormone receptor;
220. a membrane type metalloproteinase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
221. a membrane type metalloproteinase --- norepinephrine transporters;
222. a membrane type metalloproteinase --- nucleoside transporter proteins;
223. a membrane type metalloproteinase --- peripheral benzodiazepam binding receptors;
224. a membrane type metalloproteinase --- seprase;
225. a membrane type metalloproteinase --- sigma receptors;
226. a membrane type metalloproteinase --- somatostatin receptors;
227. a membrane type metalloproteinase --- stromelysin 3;
228. a membrane type metalloproteinase --- trypsin;
229. a membrane type metalloproteinase --- MMP 1;
230. a membrane type metalloproteinase --- MMP 2;
231. a membrane type metalloproteinase --- MMP 3;
232. a membrane type metalloproteinase --- MMP 7;
233. a membrane type metalloproteinase --- MMP 9;
234. a membrane type metalloproteinase --- membrane type matrix metalloproteinase I;
235. a membrane type metalloproteinase --- MMP 12;
236. a membrane type metalloproteinase --- MMP 13;
237. a membrane type metalloproteinase --- a tumor antigen;
238. alpha v beta 3 integrin --- a cathepsin type protease;
239. alpha v beta 3 integrin --- alpha v beta 3 integrin;
240. alpha v beta 3 integrin --- bombesin /gastrin releasing peptide receptors;
241. alpha v beta 3 integrin --- cathepsin B;
242. alpha v beta 3 integrin --- cathepsin D;

243. alpha v beta 3 integrin --- cathepsin K;
244. alpha v beta 3 integrin --- cathepsin L;
245. alpha v beta 3 integrin --- cathepsin O;
246. alpha v beta 3 integrin --- fibroblast activation protein;
247. alpha v beta 3 integrin --- folate binding receptors;
248. alpha v beta 3 integrin --- gastrin/cholecystokinin type B receptor;
249. alpha v beta 3 integrin --- glutamate carboxypeptidase II or (PSMA);
250. alpha v beta 3 integrin --- guanidinobenzoatase;
251. alpha v beta 3 integrin --- laminin receptor;
252. alpha v beta 3 integrin --- matrilysin;
253. alpha v beta 3 integrin --- matripase;
254. alpha v beta 3 integrin --- melanocyte stimulating hormone receptor;
255. alpha v beta 3 integrin --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
256. alpha v beta 3 integrin --- norepinephrine transporters;
257. alpha v beta 3 integrin --- nucleoside transporter proteins;
258. alpha v beta 3 integrin --- peripheral benzodiazepam binding receptors;
259. alpha v beta 3 integrin --- seprase;
260. alpha v beta 3 integrin --- sigma receptors;
261. alpha v beta 3 integrin --- somatostatin receptors;
262. alpha v beta 3 integrin --- stromelysin 3;
263. alpha v beta 3 integrin --- trypsin;
264. alpha v beta 3 integrin --- MMP 1;
265. alpha v beta 3 integrin --- MMP 2;
266. alpha v beta 3 integrin --- MMP 3;
267. alpha v beta 3 integrin --- MMP 7;
268. alpha v beta 3 integrin --- MMP 9;
269. alpha v beta 3 integrin --- membrane type matrix metalloproteinase I;
270. alpha v beta 3 integrin --- MMP 12;
271. alpha v beta 3 integrin --- MMP 13;

272. alpha v beta 3 integrin --- a tumor antigen;
273. cathepsin B --- a cathepsin type protease;
274. cathepsin B --- bombesin /gastrin releasing peptide receptors;
275. cathepsin B --- cathepsin B;
276. cathepsin B --- cathepsin D;
277. cathepsin B --- to cathepsin K;
278. cathepsin B --- cathepsin L;
279. cathepsin B --- cathepsin O;
280. cathepsin B --- fibroblast activation protein;
281. cathepsin B --- folate binding receptors;
282. cathepsin B --- gastrin/cholecystokinin type B receptor;
283. cathepsin B --- glutamate carboxypeptidase II or (PSMA);
284. cathepsin B --- guanidinobenzoatase;
285. cathepsin B --- laminin receptor;
286. cathepsin B --- matrilysin;
287. cathepsin B --- matripase;
288. cathepsin B --- melanocyte stimulating hormone receptor;
289. cathepsin B --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
290. cathepsin B --- norepinephrine transporters;
291. cathepsin B --- nucleoside transporter proteins;
292. cathepsin B --- peripheral benzodiazepam binding receptors;
293. cathepsin B --- seprase;
294. cathepsin B --- sigma receptors;
295. cathepsin B --- somatostatin receptors;
296. cathepsin B --- stromelysin 3;
297. cathepsin B --- trypsin;
298. cathepsin B --- MMP 1;
299. cathepsin B --- MMP 2;
300. cathepsin B --- MMP 3;

301. cathepsin B --- MMP 7;
302. cathepsin B --- MMP 9;
303. cathepsin B --- membrane type matrix metalloproteinase I;
304. cathepsin B --- MMP 12;
305. cathepsin B --- MMP 13;
306. cathepsin B --- a tumor antigen;
307. bombesin/gastrin releasing peptide receptors --- a cathepsin type protease;
308. bombesin/gastrin releasing peptide receptors --- bombesin /gastrin releasing peptide receptors;
309. bombesin/gastrin releasing peptide receptors --- cathepsin B;
310. bombesin/gastrin releasing peptide receptors --- cathepsin D;
311. bombesin/gastrin releasing peptide receptors --- to cathepsin K;
312. bombesin/gastrin releasing peptide receptors --- cathepsin L;
313. bombesin/gastrin releasing peptide receptors --- cathepsin O;
314. bombesin/gastrin releasing peptide receptors --- fibroblast activation protein;
315. bombesin/gastrin releasing peptide receptors --- folate binding receptors;
316. bombesin/gastrin releasing peptide receptors --- gastrin/cholecystokinin type B receptor;
317. bombesin/gastrin releasing peptide receptors --- glutamate carboxypeptidase II or (PSMA);
318. bombesin/gastrin releasing peptide receptors --- guanidinobenzoatase;
319. bombesin/gastrin releasing peptide receptors --- laminin receptor;
320. bombesin/gastrin releasing peptide receptors --- matrilysin;
321. bombesin/gastrin releasing peptide receptors --- matripase;
322. bombesin/gastrin releasing peptide receptors --- melanocyte stimulating hormone receptor;
323. bombesin/gastrin releasing peptide receptors --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
324. bombesin/gastrin releasing peptide receptors --- norepinephrine transporters;
325. bombesin/gastrin releasing peptide receptors --- nucleoside transporter proteins;

326. bombesin/gastrin releasing peptide receptors --- peripheral benzodiazepam binding receptors;
327. bombesin/gastrin releasing peptide receptors --- seprase;
328. bombesin/gastrin releasing peptide receptors --- sigma receptors;
329. bombesin/gastrin releasing peptide receptors --- somatostatin receptors;
330. bombesin/gastrin releasing peptide receptors --- stromelysin 3;
331. bombesin/gastrin releasing peptide receptors --- trypsin;
332. bombesin/gastrin releasing peptide receptors --- MMP 1;
333. bombesin/gastrin releasing peptide receptors --- MMP 2;
334. bombesin/gastrin releasing peptide receptors --- MMP 3;
335. bombesin/gastrin releasing peptide receptors --- MMP 7;
336. bombesin/gastrin releasing peptide receptors --- MMP 9;
337. bombesin/gastrin releasing peptide receptors --- membrane type matrix metalloproteinase I;
338. bombesin/gastrin releasing peptide receptors --- MMP 12;
339. bombesin/gastrin releasing peptide receptors --- MMP 13;
340. bombesin/gastrin releasing peptide receptors --- a tumor antigen;
341. fibroblast activation protein --- a cathepsin type protease;
342. fibroblast activation protein --- cathepsin D;
343. fibroblast activation protein --- to cathepsin K;
344. fibroblast activation protein --- cathepsin L;
345. fibroblast activation protein --- cathepsin O;
346. fibroblast activation protein --- fibroblast activation protein;
347. fibroblast activation protein --- folate binding receptors;
348. fibroblast activation protein --- gastrin/cholecystokinin type B receptor;
349. fibroblast activation protein --- glutamate carboxypeptidase II or (PSMA);
350. fibroblast activation protein --- guanidinobenzoatase;
351. fibroblast activation protein --- laminin receptor;
352. fibroblast activation protein --- matrilysin;
353. fibroblast activation protein --- matripase;

354. fibroblast activation protein --- melanocyte stimulating hormone receptor;
355. fibroblast activation protein --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
356. fibroblast activation protein --- norepinephrine transporters;
357. fibroblast activation protein --- nucleoside transporter proteins;
358. fibroblast activation protein --- peripheral benzodiazepam binding receptors;
359. fibroblast activation protein --- plasmin;
360. fibroblast activation protein --- seprase;
361. fibroblast activation protein --- sigma receptors;
362. fibroblast activation protein --- somatostatin receptors;
363. fibroblast activation protein --- stromelysin 3;
364. fibroblast activation protein --- trypsin;
365. fibroblast activation protein --- MMP 1;
366. fibroblast activation protein --- MMP 2;
367. fibroblast activation protein --- MMP 3;
368. fibroblast activation protein --- MMP 7;
369. fibroblast activation protein --- MMP 9;
370. fibroblast activation protein --- membrane type matrix metalloproteinase I;
371. fibroblast activation protein --- MMP 12;
372. fibroblast activation protein --- MMP 13;
373. fibroblast activation protein --- a tumor antigen;
374. glutamate carboxypeptidase II or PSMA --- cathepsin D;
375. glutamate carboxypeptidase II or PSMA --- to cathepsin K;
376. glutamate carboxypeptidase II or PSMA --- cathepsin L;
377. glutamate carboxypeptidase II or PSMA --- cathepsin O;
378. glutamate carboxypeptidase II or PSMA --- fibroblast activation protein;
379. glutamate carboxypeptidase II or PSMA --- folate binding receptors;
380. glutamate carboxypeptidase II or PSMA --- gastrin/cholecystokinin type B receptor;

381. glutamate carboxypeptidase II or PSMA --- glutamate carboxypeptidase II or (PSMA);
382. glutamate carboxypeptidase II or PSMA --- guanidinobenzoatase;
383. glutamate carboxypeptidase II or PSMA --- laminin receptor;
384. glutamate carboxypeptidase II or PSMA --- matrilysin;
385. glutamate carboxypeptidase II or PSMA --- matripase;
386. glutamate carboxypeptidase II or PSMA --- melanocyte stimulating hormone receptor;
387. glutamate carboxypeptidase II or PSMA --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
388. glutamate carboxypeptidase II or PSMA --- nucleoside transporter proteins;
389. glutamate carboxypeptidase II or PSMA --- peripheral benzodiazepam binding receptors;
390. glutamate carboxypeptidase II or PSMA --- seprase;
391. glutamate carboxypeptidase II or PSMA --- sigma receptors;
392. glutamate carboxypeptidase II or PSMA --- somatostatin receptors;
393. glutamate carboxypeptidase II or PSMA --- stromelysin 3;
394. glutamate carboxypeptidase II or PSMA --- trypsin;
395. glutamate carboxypeptidase II or PSMA --- MMP 1;
396. glutamate carboxypeptidase II or PSMA --- MMP 2;
397. glutamate carboxypeptidase II or PSMA --- MMP 3;
398. glutamate carboxypeptidase II or PSMA --- MMP 7;
399. glutamate carboxypeptidase II or PSMA --- MMP 9;
400. glutamate carboxypeptidase II or PSMA --- membrane type matrix metalloproteinase I;
401. glutamate carboxypeptidase II or PSMA --- MMP 12;
402. glutamate carboxypeptidase II or PSMA --- MMP 13;
403. glutamate carboxypeptidase II or PSMA --- a tumor antigen;
404. laminin receptor --- a cathepsin type protease;
405. laminin receptor --- cathepsin B;

406. laminin receptor --- cathepsin D;
407. laminin receptor --- to cathepsin K;
408. laminin receptor --- cathepsin L;
409. laminin receptor --- cathepsin O;
410. laminin receptor --- fibroblast activation protein;
411. laminin receptor --- folate binding receptors;
412. laminin receptor --- gastrin/cholecystokinin type B receptor;
413. laminin receptor --- guanidinobenzoatase;
414. laminin receptor --- laminin receptor;
415. laminin receptor --- matrilysin;
416. laminin receptor --- matripase;
417. laminin receptor --- melanocyte stimulating hormone receptor;
418. laminin receptor --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
419. laminin receptor --- norepinephrine transporters;
420. laminin receptor --- nucleoside transporter proteins;
421. laminin receptor --- peripheral benzodiazepam binding receptors;
422. laminin receptor --- seprase;
423. laminin receptor --- sigma receptors;
424. laminin receptor --- somatostatin receptors;
425. laminin receptor --- stromelysin 3;
426. laminin receptor --- trypsin;
427. laminin receptor --- MMP 1;
428. laminin receptor --- MMP 2;
429. laminin receptor --- MMP 3;
430. laminin receptor --- MMP 7;
431. laminin receptor --- MMP 9;
432. laminin receptor --- membrane type matrix metalloproteinase I;
433. laminin receptor --- MMP 12;
434. laminin receptor --- MMP 13;

435. laminin receptor --- a tumor antigen;
436. seprase --- a cathepsin type protease;
437. seprase --- cathepsin D;
438. seprase --- to cathepsin K;
439. seprase --- cathepsin L;
440. seprase --- cathepsin O;
441. seprase --- fibroblast activation protein;
442. seprase --- folate binding receptors;
443. seprase --- gastrin/cholecystokinin type B receptor;
444. seprase --- guanidinobenzoatase;
445. seprase --- matripase;
446. seprase --- melanocyte stimulating hormone receptor;
447. seprase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
448. seprase --- norepinephrine transporters;
449. seprase --- nucleoside transporter proteins;
450. seprase --- peripheral benzodiazepam binding receptors;
451. seprase --- seprase;
452. seprase --- sigma receptors;
453. seprase --- somatostatin receptors;
454. seprase --- stromelysin 3;
455. seprase --- trypsin;
456. seprase --- MMP 1;
457. seprase --- MMP 2;
458. seprase --- MMP 3;
459. seprase --- MMP 7;
460. seprase --- MMP 9;
461. seprase --- membrane type matrix metalloproteinase I;
462. seprase --- MMP 12;
463. seprase --- MMP 13;
464. seprase --- a tumor antigen;

465. guanidinobenzoatase --- a cathepsin type protease;
466. guanidinobenzoatase --- cathepsin D;
467. guanidinobenzoatase --- to cathepsin K;
468. guanidinobenzoatase --- cathepsin L;
469. guanidinobenzoatase --- cathepsin O;
470. guanidinobenzoatase --- fibroblast activation protein;
471. guanidinobenzoatase --- folate binding receptors;
472. guanidinobenzoatase --- gastrin/cholecystokinin type B receptor;
473. guanidinobenzoatase --- guanidinobenzoatase;
474. guanidinobenzoatase --- matripase;
475. guanidinobenzoatase --- melanocyte stimulating hormone receptor;
476. guanidinobenzoatase --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
477. guanidinobenzoatase --- norepinephrine transporters;
478. guanidinobenzoatase --- nucleoside transporter proteins;
479. guanidinobenzoatase --- peripheral benzodiazepam binding receptors;
480. guanidinobenzoatase --- sigma receptors;
481. guanidinobenzoatase --- somatostatin receptors;
482. guanidinobenzoatase --- stromelysin 3;
483. guanidinobenzoatase --- trypsin;
484. guanidinobenzoatase --- MMP 1;
485. guanidinobenzoatase --- MMP 2;
486. guanidinobenzoatase --- MMP 3;
487. guanidinobenzoatase --- MMP 7;
488. guanidinobenzoatase --- MMP 9;
489. guanidinobenzoatase --- membrane type matrix metalloproteinase I;
490. guanidinobenzoatase --- MMP 12;
491. guanidinobenzoatase --- MMP 13;
492. guanidinobenzoatase --- a tumor antigen;
493. peripheral benzodiazepam binding receptors --- a cathepsin type protease;

494. peripheral benzodiazepam binding receptors --- cathepsin D;
495. peripheral benzodiazepam binding receptors --- to cathepsin K;
496. peripheral benzodiazepam binding receptors --- cathepsin L;
497. peripheral benzodiazepam binding receptors --- cathepsin O;
498. peripheral benzodiazepam binding receptors --- fibroblast activation protein;
499. peripheral benzodiazepam binding receptors --- folate binding receptors;
500. peripheral benzodiazepam binding receptors --- gastrin/cholecystokinin type B receptor;
501. peripheral benzodiazepam binding receptors --- guanidinobenzoatase;
502. peripheral benzodiazepam binding receptors --- matripase;
503. peripheral benzodiazepam binding receptors --- melanocyte stimulating hormone receptor;
504. peripheral benzodiazepam binding receptors --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
505. peripheral benzodiazepam binding receptors --- norepinephrine transporters;
506. peripheral benzodiazepam binding receptors --- nucleoside transporter proteins;
507. peripheral benzodiazepam binding receptors --- peripheral benzodiazepam binding receptors;
508. peripheral benzodiazepam binding receptors --- sigma receptors;
509. peripheral benzodiazepam binding receptors --- somatostatin receptors;
510. peripheral benzodiazepam binding receptors --- stromelysin 3;
511. peripheral benzodiazepam binding receptors --- trypsin;
512. peripheral benzodiazepam binding receptors --- MMP 1;
513. peripheral benzodiazepam binding receptors --- MMP 2;
514. peripheral benzodiazepam binding receptors --- MMP 3;
515. peripheral benzodiazepam binding receptors --- MMP 7;
516. peripheral benzodiazepam binding receptors --- MMP 9;
517. peripheral benzodiazepam binding receptors --- membrane type matrix metalloproteinase I;
518. peripheral benzodiazepam binding receptors --- MMP 12;

519. peripheral benzodiazepam binding receptors --- MMP 13;
520. peripheral benzodiazepam binding receptors --- a tumor antigen;
521. folate binding receptors --- a cathepsin type protease;
522. folate binding receptors --- cathepsin D;
523. folate binding receptors --- to cathepsin K;
524. folate binding receptors --- cathepsin L;
525. folate binding receptors --- cathepsin O;
526. folate binding receptors --- fibroblast activation protein;
527. folate binding receptors --- folate binding receptors;
528. folate binding receptors --- matripase;
529. folate binding receptors --- melanocyte stimulating hormone receptor;
530. folate binding receptors --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
531. folate binding receptors --- norepinephrine transporters;
532. folate binding receptors --- nucleoside transporter proteins;
533. folate binding receptors --- sigma receptors;
534. folate binding receptors --- somatostatin receptors;
535. folate binding receptors --- stromelysin 3;
536. folate binding receptors --- trypsin;
537. folate binding receptors --- MMP 1;
538. folate binding receptors --- MMP 2;
539. folate binding receptors --- MMP 3;
540. folate binding receptors --- MMP 7;
541. folate binding receptors --- MMP 9;
542. folate binding receptors --- membrane type matrix metalloproteinase I;
543. folate binding receptors --- MMP 12;
544. folate binding receptors --- MMP 13;
545. folate binding receptors --- a tumor antigen;
546. folate binding receptors --- a cathepsin type protease;
547. folate binding receptors --- cathepsin D;

548. folate binding receptors --- to cathepsin K;
549. folate binding receptors --- cathepsin L;
550. folate binding receptors --- cathepsin O;
551. folate binding receptors --- fibroblast activation protein;
552. folate binding receptors --- folate binding receptors;
553. folate binding receptors --- matripase;
554. folate binding receptors --- melanocyte stimulating hormone receptor;
555. folate binding receptors --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
556. folate binding receptors --- norepinephrine transporters;
557. folate binding receptors --- nucleoside transporter proteins;
558. folate binding receptors --- sigma receptors;
559. folate binding receptors --- somatostatin receptors;
560. folate binding receptors --- stromelysin 3;
561. folate binding receptors --- trypsin;
562. folate binding receptors --- MMP 1;
563. folate binding receptors --- MMP 2;
564. folate binding receptors --- MMP 3;
565. folate binding receptors --- MMP 7;
566. folate binding receptors --- MMP 9;
567. folate binding receptors --- membrane type matrix metalloproteinase I;
568. folate binding receptors --- MMP 12;
569. folate binding receptors --- MMP 13;
570. folate binding receptors --- a tumor antigen;
571. nucleoside transporter proteins --- a cathepsin type protease;
572. nucleoside transporter proteins --- cathepsin D;
573. nucleoside transporter proteins --- to cathepsin K;
574. nucleoside transporter proteins --- cathepsin L;
575. nucleoside transporter proteins --- cathepsin O;
576. nucleoside transporter proteins --- fibroblast activation protein;

577. nucleoside transporter proteins --- nucleoside transporter proteins;
578. nucleoside transporter proteins --- matripase;
579. nucleoside transporter proteins --- melanocyte stimulating hormone receptor;
580. nucleoside transporter proteins --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
581. nucleoside transporter proteins --- norepinephrine transporters;
582. nucleoside transporter proteins --- nucleoside transporter proteins;
583. nucleoside transporter proteins --- sigma receptors;
584. nucleoside transporter proteins --- somatostatin receptors;
585. nucleoside transporter proteins --- stromelysin 3;
586. nucleoside transporter proteins --- trypsin;
587. nucleoside transporter proteins --- MMP 1;
588. nucleoside transporter proteins --- MMP 2;
589. nucleoside transporter proteins --- MMP 3;
590. nucleoside transporter proteins --- MMP 7;
591. nucleoside transporter proteins --- MMP 9;
592. nucleoside transporter proteins --- membrane type matrix metalloproteinase I;
593. nucleoside transporter proteins --- MMP 12;
594. nucleoside transporter proteins --- MMP 13;
595. nucleoside transporter proteins --- a tumor antigen;
596. melanocyte stimulating hormone receptor --- a cathepsin type protease;
597. melanocyte stimulating hormone receptor --- cathepsin D;
598. melanocyte stimulating hormone receptor --- to cathepsin K;
599. melanocyte stimulating hormone receptor --- cathepsin L;
600. melanocyte stimulating hormone receptor --- cathepsin O;
601. melanocyte stimulating hormone receptor --- fibroblast activation protein;
602. melanocyte stimulating hormone receptor --- melanocyte stimulating hormone receptor;
603. melanocyte stimulating hormone receptor --- melanocyte stimulating hormone receptor;

604. melanocyte stimulating hormone receptor --- nitrobenzylthioinosine-binding receptors or (nucleoside transporter);
605. melanocyte stimulating hormone receptor --- norepinephrine transporters;
606. melanocyte stimulating hormone receptor --- nucleoside transporter proteins;
607. melanocyte stimulating hormone receptor --- sigma receptors;
608. melanocyte stimulating hormone receptor --- somatostatin receptors;
609. melanocyte stimulating hormone receptor --- stromelysin 3;
610. melanocyte stimulating hormone receptor --- trypsin;
611. melanocyte stimulating hormone receptor --- MMP 1;
612. melanocyte stimulating hormone receptor --- MMP 2;
613. melanocyte stimulating hormone receptor --- MMP 3;
614. melanocyte stimulating hormone receptor --- MMP 7;
615. melanocyte stimulating hormone receptor --- MMP 9;
616. melanocyte stimulating hormone receptor --- membrane type matrix metalloproteinase I;
617. melanocyte stimulating hormone receptor --- MMP 12;
618. melanocyte stimulating hormone receptor --- MMP 13;
619. melanocyte stimulating hormone receptor --- a tumor antigen;
620. sigma receptors --- a cathepsin type protease;
621. sigma receptors --- cathepsin D;
622. sigma receptors --- to cathepsin K;
623. sigma receptors --- cathepsin L;
624. sigma receptors --- cathepsin O;
625. sigma receptors --- fibroblast activation protein;
626. sigma receptors --- sigma receptors;
627. sigma receptors --- matripase;
628. sigma receptors --- norepinephrine transporters;
629. sigma receptors --- sigma receptors;
630. sigma receptors --- somatostatin receptors;
631. sigma receptors --- stromelysin 3;

632. sigma receptors --- trypsin;
633. sigma receptors --- MMP 1;
634. sigma receptors --- MMP 2;
635. sigma receptors --- MMP 3;
636. sigma receptors --- MMP 7;
637. sigma receptors --- MMP 9;
638. sigma receptors --- membrane type matrix metalloproteinase I;
639. sigma receptors --- MMP 12;
640. sigma receptors --- MMP 13;
641. sigma receptors --- a tumor antigen;
642. somatostatin receptors --- a cathepsin type protease;
643. somatostatin receptors --- cathepsin D;
644. somatostatin receptors --- to cathepsin K;
645. somatostatin receptors --- cathepsin L;
646. somatostatin receptors --- cathepsin O;
647. somatostatin receptors --- fibroblast activation protein;
648. somatostatin receptors --- somatostatin receptors;
649. somatostatin receptors --- matripase;
650. somatostatin receptors --- melanocyte stimulating hormone receptor;
651. somatostatin receptors --- sigma receptors;
652. somatostatin receptors --- somatostatin receptors;
653. somatostatin receptors --- stromelysin 3;
654. somatostatin receptors --- trypsin;
655. somatostatin receptors --- MMP 1;
656. somatostatin receptors --- MMP 2;
657. somatostatin receptors --- MMP 3;
658. somatostatin receptors --- MMP 7;
659. somatostatin receptors --- MMP 9;
660. somatostatin receptors --- membrane type matrix metalloproteinase I;
661. somatostatin receptors --- MMP 12;

662. somatostatin receptors --- MMP 13;

663. somatostatin receptors --- a tumor antigen ;

664. stromelysin 3 --- a cathepsin type protease;

665. stromelysin 3 --- cathepsin D;

666. stromelysin 3 --- to cathepsin K;

667. stromelysin 3 --- cathepsin L;

668. stromelysin 3 --- cathepsin O;

669. stromelysin 3 --- fibroblast activation protein;

670. stromelysin 3 --- stromelysin 3;

671. stromelysin 3 --- matripase;

672. stromelysin 3 --- melanocyte stimulating hormone receptor;

673. stromelysin 3 --- somatostatin receptors;

674. stromelysin 3 --- trypsin;

675. stromelysin 3 --- MMP 1;

676. stromelysin 3 --- MMP 2;

677. stromelysin 3 --- MMP 3;

678. stromelysin 3 --- MMP 7;

679. stromelysin 3 --- MMP 9;

680. stromelysin 3 --- membrane type matrix metalloproteinase I;

681. stromelysin 3 --- MMP 12;

682. stromelysin 3 --- MMP 13;

683. stromelysin 3 --- a tumor antigen;

684. trypsin --- a cathepsin type protease;

685. trypsin --- cathepsin D;

686. trypsin --- to cathepsin K;

687. trypsin --- cathepsin L;

688. trypsin --- cathepsin O;

689. trypsin --- fibroblast activation protein;

690. trypsin --- trypsin;

691. trypsin --- matripase;

692. trypsin --- melanocyte stimulating hormone receptor;

693. trypsin --- stromelysin 3;

694. trypsin --- MMP 1;

695. trypsin --- MMP 2;

696. trypsin --- MMP 3;

697. trypsin --- MMP 7;

698. trypsin --- MMP 9;

699. trypsin --- membrane type matrix metalloproteinase I;

700. trypsin --- MMP 12;

701. trypsin --- MMP 13;

702. trypsin --- a tumor antigen;

703. MMP 1 --- a cathepsin type protease;

704. MMP 1 --- cathepsin D;

705. MMP 1 --- to cathepsin K;

706. MMP 1 --- cathepsin L;

707. MMP 1 --- cathepsin O;

708. MMP 1 --- fibroblast activation protein;

709. MMP 1 --- matripase;

710. MMP 1 --- melanocyte stimulating hormone receptor;

711. MMP 1 --- stromelysin 3;

712. MMP 1 --- MMP 1;

713. MMP 1 --- MMP 2;

714. MMP 1 --- MMP 3;

715. MMP 1 --- MMP 7;

716. MMP 1 --- MMP 9;

717. MMP 1 --- membrane type matrix metalloproteinase I;

718. MMP 1 --- MMP 12;

719. MMP 1 --- MMP 13;

720. MMP 1 --- a tumor antigen;

721. MMP-2 --- a cathepsin type protease;

722. MMP-2 --- cathepsin D;

723. MMP-2 --- to cathepsin K;

724. MMP-2 --- cathepsin L;

725. MMP-2 --- cathepsin O;

726. MMP-2 --- fibroblast activation protein;

727. MMP-2 --- matripase;

728. MMP-2 --- melanocyte stimulating hormone receptor;

729. MMP-2 --- stromelysin 3;

730. MMP-2 --- MMP 2;

731. MMP-2 --- MMP 3;

732. MMP-2 --- MMP 7;

733. MMP-2 --- MMP 9;

734. MMP-2 --- membrane type matrix metalloproteinase I;

735. MMP-2 --- MMP-2;

736. MMP-2 --- MMP-3;

737. MMP-2 --- a tumor antigen;

738. MMP-3 --- a cathepsin type protease;

739. MMP-3 --- cathepsin D;

740. MMP-3 --- to cathepsin K;

741. MMP-3 --- cathepsin L;

742. MMP-3 --- cathepsin O;

743. MMP-3 --- matripase;

744. MMP-3 --- MMP 3;

745. MMP-3 --- MMP 7;

746. MMP-3 --- MMP 9;

747. MMP-3 --- membrane type matrix metalloproteinase I;

748. MMP-3 --- MMP-3;

749. MMP-3 --- a tumor antigen;

750. MMP 7 --- a cathepsin type protease;

751. MMP 7 --- cathepsin D;

752. MMP 7 --- to cathepsin K;

753. MMP 7 --- cathepsin L;

754. MMP 7 --- cathepsin O;

755. MMP 7 --- fibroblast activation protein;

756. MMP 7 --- matripase;

757. MMP 7 --- stromelysin 3;

758. MMP 7 --- MMP 7;

759. MMP 7 --- MMP 9;

760. MMP 7 --- membrane type matrix metalloproteinase I;

761. MMP 7 --- a tumor antigen;

762. MMP 9 --- a cathepsin type protease;

763. MMP 9 --- cathepsin D;

764. MMP 9 --- to cathepsin K;

765. MMP 9 --- cathepsin L;

766. MMP 9 --- cathepsin O;

767. MMP 9 --- matripase;

768. MMP 9 --- MMP 9;

769. MMP 9 --- membrane type matrix metalloproteinase I;

770. MMP 9 --- a tumor antigen;

771. MMP 12 --- a cathepsin type protease;

772. MMP 12 --- cathepsin D;

773. MMP 12 --- to cathepsin K;

774. MMP 12 --- cathepsin L;

775. MMP 12 --- cathepsin O;

776. MMP 12 --- matripase;

777. MMP 12 --- MMP 2;

778. MMP 12 --- membrane type matrix metalloproteinase I;

779. MMP 12 --- a tumor antigen;

780. MMP 13 --- a cathepsin type protease;

781. MMP 13 --- cathepsin D;

782. MMP 13 --- to cathepsin K;

783. MMP 13 --- cathepsin L;

784. MMP 13 --- cathepsin O;

785. MMP 13 --- matripase;

786. MMP 13 --- membrane type matrix metalloproteinase I;

787. MMP 13 --- a tumor antigen;

788. Membrane type matrix metalloproteinase --- a cathepsin type protease;

789. Membrane type matrix metalloproteinase --- cathepsin D;

790. Membrane type matrix metalloproteinase --- to cathepsin K;

791. Membrane type matrix metalloproteinase --- cathepsin L;

792. Membrane type matrix metalloproteinase --- cathepsin O;

793. Membrane type matrix metalloproteinase --- matripase;

794. Membrane type matrix metalloproteinase --- membrane type matrix metalloproteinase I; and

795. Membrane type matrix metalloproteinase --- a tumor antigen.